S/161/6:/003/006/021/031 B102/B214

Possible existence of ...

which are displaced from the field-free level by $\Delta \epsilon_1 = 0$ and $\Delta \epsilon_{2,3} = \pm y'H$, where

$$i_{1}' = \frac{e}{2mc} \langle 1 \mid M_s \mid 3 \rangle = \frac{e}{2mc} \langle 2 \mid M_s \mid 3 \rangle = \frac{e}{2mc} \langle 1 \mid M_s \mid 2 \rangle$$
. A

The intensity of the magnetic dipole transitions from the ground state of in the magnetic field are described by

this field are described by
$$|\langle \eta, 1 | \hat{W}' | 0 \rangle|^2 = g' |\Delta|^2 |\cos \theta \cos \varphi H_x - H_y \cos \theta \sin \varphi - H_z \sin \theta|^2,$$

$$\begin{aligned} |\langle \eta, 1 | \hat{W}^{r} | 0 \rangle|^{2} &= g' |\Delta|^{2} |H_{x} \sin \varphi - H_{y} \cos \varphi|^{2}, \\ |\langle \eta, 2 | \hat{W}^{r} | 0 \rangle|^{2} &= |\langle \eta, 3 | \hat{W}^{r} | 0 \rangle|^{2} = g' |\Delta|^{2} \frac{H^{2} - H_{x}}{2H^{2}} |-\sin \theta + \frac{H_{x}H_{x} + iHH_{y}}{H^{2} - H_{x}^{2}} \cos \theta \sin \varphi + \frac{H_{y}H_{x} - iHH_{x}}{H^{2} - H_{x}^{2}} \cos \theta \cos \varphi|^{2}, \end{aligned}$$

$$\begin{aligned} |\langle \eta, 2 | \hat{W}^{p} | 0 \rangle|^{2} &= |\langle \eta, 3 | \hat{W}^{p} | 0 \rangle|^{2} = \\ &= g' |\Delta|^{2} \frac{1}{2H^{2}} \left| \frac{H_{x}H_{x} + iHH_{y}}{\sqrt{H^{2} - H_{x}^{2}}} \cos \varphi - \frac{H_{y}H_{x} - iHH_{x}}{\sqrt{H^{2} - H_{x}^{2}}} \sin \varphi \right|^{2}. \end{aligned}$$

Card 5/6

 $\Delta = \langle 1 \hat{M}_x | 0 \rangle$.

Possible existence of ...

s/181/61/003/006/021/031
B102/B214

There are 5 Soviet-bloc references.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova (Leningrad State University imeni A. A. Zhdanov), Ural'skiy gosudarstvennyy universitet im. A. M. Gor'kogo Sverdlovsk (Ural State University imeni A. M. Gor'kiy, Sverdlovsk)

December 7, 1960 (initially), January 20, 1961 (after revision) SUBMITTED:

Card 6/6

CIA-RDP86-00513R000720710015-8" APPROVED FOR RELEASE: 06/13/2000

KARGAPOLOVA, A.P.

USSR / Woods and Wood Control.

 Π

: Ref Zhur - Biologiya, No 1, 1959, No. 1944 Abs Jour

: Kargapolova, A. P. Author

: Altay Agricultural Institute Inst

: Chemical Method of Destroying Jeeds in Corn Title

Plantings

: Tr. Altaysk, s.-kh. in-tn, 1957, vyp 5, 118-123 Orig Pub

: Preparations of 2,4-D and MCPA were studied Abstract

in 1956 at the training-experimental farm of the Altay Agricultural Institute; certain plots were sprayed with doses of 1.5 and 2 kg/hectare for 2-3 days before the corn emerged from the ground. Then these same plots were sprayed with a dose of 0.4-0.5 kg/hectare during the 4-5 leaf stage. In the second variant 0.8-1.0

kg/hectare of the spray was applied to the

Card 1/2

10

N : Ref Zhur - Biologiya, No 1, 1959, No 1, APPROVED FOR RELEASE: 06/13/2000 Abs Jour

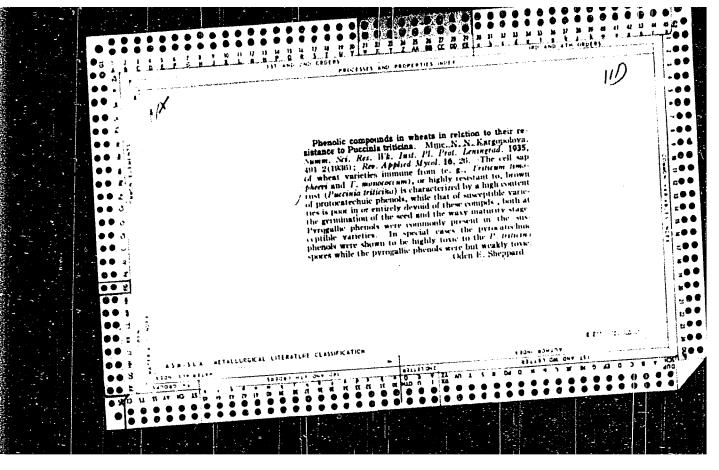
> plots in the 4-5 leaf stage. In the third variant the plots were sprayed in the 8-9 leaf stage with a dosage of 0.8-1 kg/hoctare of active ingredients. The standard amount of solution used was 200 liter/hectare. The most effective variant was a combination of spraying before sprouts appeared and in the phase of 4-5 leaves with preparations of 2,4-D or MCPA in a dosage of 2 + 0.4 kg/hectare. Contamination by broad-leaved weeds was lessened 87-93%, part of the weeds germinating with the grains were killed, and the harvest of the green portion of the corn increased 12.5-20.5%. MCPA herbicide gave the best results. L. D. Stonov

KARGAPOLOVA, L. I., Cand Biol Sci (diss) -- "The morphology of the salivary glands, liver, and pancreas of karakul sheep and Uzbek goats". Samarkand, 1960. 18 pp (State Committee on Higher and Inter Spec Educ of the Council of Ministers Uzbek SSR, Uzbek Agric Inst im V. V. Kuybyshev), 150 copies (KL, No 11, 1960, 130)

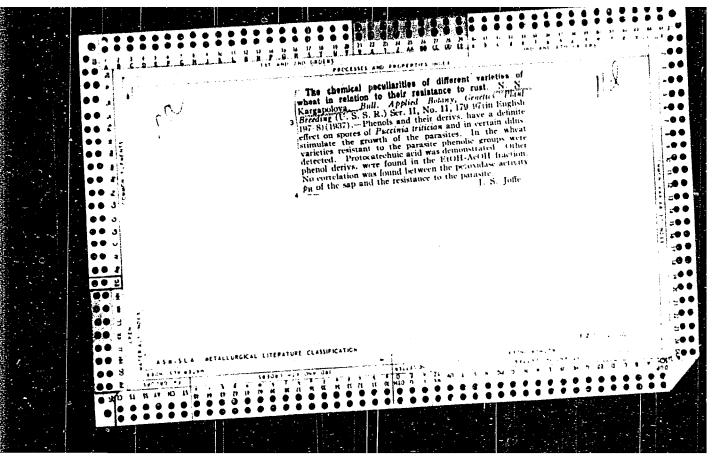
PROKOP'YEV, D.I.; KARGAPOLOVA, M.G.

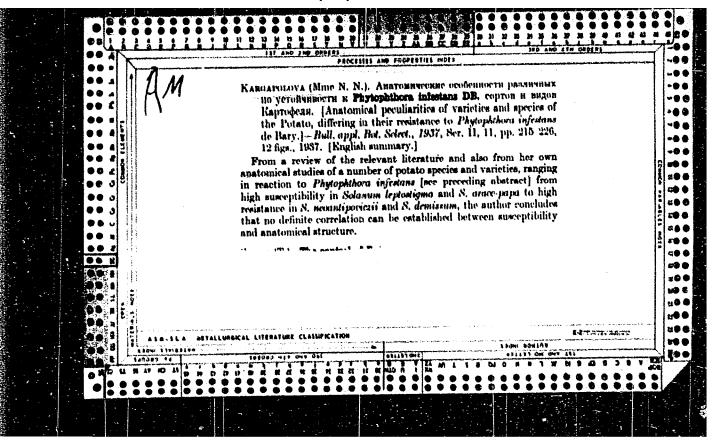
Therapeutic results in extrapleural pneumonolysis. Probl. tub. 40 no.6:101-103 '62' (MIRA 16:7 (MIRA 16:12)

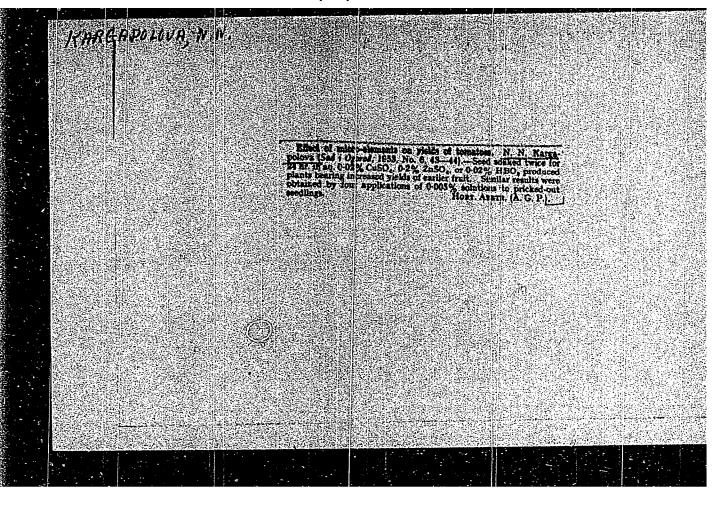
1. Iz Respublikanskogo protivotuberkuleznogo obⁿyedineniya (glavnyy vrach G.V. Shatrova) Udmurtskoy ASSR.



"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000720710015-8







KARGA POLOVA, N.N.

USSR / Cultivated Plants. Potatoes. Vegetables. Melons.

Abs Jour : Ror Zhur - Bioli, No 8, 1958, No 34694

Author : Kargapolova, N. N.
Inst : AS Latv. SSR

Title : Accoleration of the Ripening of Tomatoes and

Potatoes under the Influence of Micronutrients.

Orig Pub : V. sb.: Mikroelementy v s. kh. i meditsine,

Riga, AN LatvSSR, 1956, 409-415

Abstract : In experiments of several years' standing,

conducted by the Solection Station of Leningrad,

soaking of seed for a two-day long period or spraying tomato seedlings after picking, as well as four to five sprinklings of the tubers of potatoes in the stage of vernalization at intervals of 6 to 7 days with weak solutions (0.02 to 0.005%) of CuSO4, H3EO3, EnSO4 and

Card 1/2

HRYKIN, P.A.; KARGASHINA, V.A.

Technical basis of production standards for work in photographic laboratories. Geod.i kart. no.3:55-61 Mr '60. (MIRA 13:6)

(Photography--Production standards)

.

YEFIMOV, V.A., inzhener; KARGASHINSKIY, A.D., inzhener.

[Laying and assembling cables for signaling central control block systems] Prokladka i montazh kabelei STsB. Moskva, Gos. transp. zhel-dor. izd-vo, 1947. 219 p. (MLRA 7:4) (Electric cables) (Railroads—Signaling)

KARGASHINSKIY, A.D., inzh.

Small switch interlocking systems. Avtom. telem. 1 sviaz 8
no.9:13-15 S '64.

(MERA 17:10)

KARGAZHANOV, Z.

Two different interpretations of the concept "minimum industrial content." Vest. AN Kazakh. SSR 19 no.7:49-60 J1 '63. (MIRA 17:2)

YERGALIYEV, A.Ye.; KARGAZHANOV, Z.

Determining the minimum industrial metal content of ore from the economic point of view. Trudy Alt. GMNII AN Kazakh. SSR 10: 146-168 '61. (MIRA 14:9)

(Ore: -Sampling and estimation)

KARGAZHANOV, Z.

Practice of establishing an industrial minimum for operative and projected mines with disseminated ores. Trudy Alt. GMNII AN Kazakh. SSR 15:188-196 '63. (MIRA 17:3)

YERGALIYEV, A.Ye.; KARGAZHANOV, Z.K.

Existing methods of determining the minimum commercial metal content of ores. Trudy Alt. GMNII AN Kazakh. SSR 13:54-70 '62. (MIRA 16:3) (Ores--Sampling and estimation)

KARGE, Z.

Progress in the construction of rollingmachine gears. Pt. 1. (To be contd) p.145

PRZEGLAD MECHANICZNY. (Stowarzysenie Inzynierow i Technikow Mechanikow Polskich) Warszawa., Poland Vol.18, no.5, Mar. 1959

Monthly list of East European accessions (EEAI) LC, Vol.8, no.7, July 1959 Uncl.

RARCE, 7. Progress in the construction rolling-machine gears. Pt. 2. p. 180 PREZEGLAD MECHANICZNY. (Stowarzysenie Inzynierow i Technikow Mechanikow Folskich) Warszawa, Poland Vol. 18, no. 5, Mar. 1959 Monthly List of East European Accession (EFAI) LC, Vol. 8, no. 7, July, 1959 Uncl.

Selection analysis of transmission cils. Problemy proj hut maszyn 10 no.5:141-145 My '62.

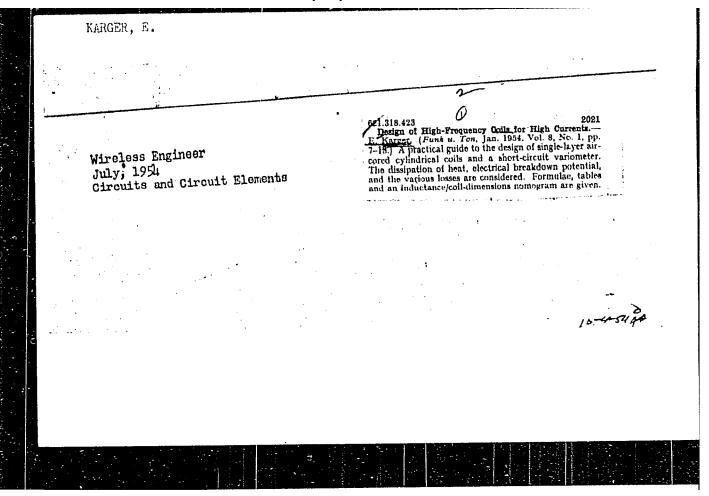
1. Biprohut, Gliwice.

KARGER, B.P., podpolkovnik, voyennyy shturman 1-go klassa

Determining the elements of a submarine's movements for aerial bombing in training area conditions. Mor. sbor. 46 no.8:59-63 Ag '62. (MIRA 16:10)

(Submarine boats)

(Bombing, Aerial)



MACIEJEWSKI, A.; RUSZKOWSKI, M.; MAZURKIEWICZ, M.; PANUSZ, H.; BOBINSKI, H.; HEWEIKE, J.; KARGER, E.

Studies on blood proteins in children in general anesthesia. Pediat. polska 34 no.1:37-51 Jan 59.

 Z Kliniki Chirurgii Dzieciecej A. M. w Lodzi Kierownik: prof. dr med. A. Maciejewski. Adres: Lodz, ul. Armii Czerwonej 15. (ANKITHESIA, eff.

on blood proteins in child. (Pol))
(BLOOD PROTEINS.
eff. of anesth. in child. (Pol))

ARMATYS, J.; KARGER, E.

A method for endotracheal general anesthesia in surgical interventions on experimental animals. Acta physiol. polon. 10 no.3: 435-438 May-June 59.

1. Z Zakladu Fizjologii A. M. w Lodzi Kierownik; z-ca prof. dr J. Sysa Z Kliniki Chirurgii Dzieciecej A. M. w Lodzi Kierownik: prof. dr A. Maciejewski. (ANESTHESIA INTRATRACHEAL)

BODALSKI, Jerzy; KARGER, Eugeniusz; JAROSIK, Napoleon

The problem of resuscitation in sudden death in infants (apropos of a case). Pediat. Pol. 39 no.3:281-286 Mr'64

1. Z II Kliniki Chorob Dzieci AM w Lodzi (kierownik: prof.dr. med. F.Redlich) i z Kliniki Chirurgii Dzieciecej AM w Lodzi (kierownik: prof.dr.med. A.Maciejewski).



DANILEVSKIY, Viktor Vasil'yevich[deceased]; KARGER, M.K., otv. red.; BYSTROV, P.P., red.izd-va; BOCHEVER, V.T., tekhn. red.

[Lomonosov and decorative glass] Lomonosov i khudozhestvennoe steklo. Moskva, Izd-vo "Nauka," 1964. 441 p. (MIRA 17:4)

1. Deystvitel'nyy chlen AN Ukr.SSR (for Danilevskiy).

KARSER, R.

Comparing cause offers on eargo tramps in the Boltic. p. 350

TECHNIKA I GOSPOMARA MORSKA. (Maczelna Cręanizacja Technicana, Instytut Merski i Morski Institut Bybacki) Gdansk, Peland. Vol. 8, no. 12, Dec. 1958

Monthly List of East European Accessions (LEVI) LG Vol. 1, rc. 0, August, 1959

Uncl.

- 1. KARGER, Ya., Eng.
- 2. USSR (600)
- 4. Dairying Apparatus and Supplies
- 7. Continuous motion sterilizer, Mol. prom., 13, No. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February, 1953. Unclassified.

PROCHAZKA,J.; SIMKOVA,V.; HAVELKA,J.; HEJZLAR,M.; VIKLICKY,J.; KARGEROVA,A.; KUBIKOVA,M.

On the problem of the penetration of the placenta by chloramphenical. Preliminary report. Cesk. pediat. 19 no.4:311-314 Ap'64.

is the provided a prevence infekcnich nemoci fakulty detskeho lekarstvi KU v Praze (vedouci: prof.dr. J. Prochazka, DrSc.); Vojensky ustav hygieny, epidemiologie a mikrobioloje v Praze (prednosta: MUDr. M. Hejzlar) a Patologickoanatomicke oddeleni nemocnice na Bulovca, (vedouci: doc.dr. J. Viklicky).

SOBEK, V.; KARGEROVA, A.; PADEVET, M.

Effect of pyrocatechin on the detoxication of neomycin. Bratisl. lek. listy 45 no.3:142-146 15 F 165.

1. Laborator pro vyzkum pathologie, terapie a prevence infekcnich chorob; Faklulty detskeho lekarstvi Karlovy Univerzity v Praze (reditel: prof. MUDr. J. Prochazka, DrSc.).

KARGI, R.

Sugar-beet irrigation

P. 29, Listy Cukrovarnicke) Vol. 73, No. 2, Feb. 1957, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC. - VOL. 7, NO. 1, JAN. 1958

KARGIN, A.A.

130-9-3/21

AUTHORS: Baranovskiy, P.G., and Kargin, A.A.

TITLE: Controlling Blast-Furnace Operation from the Difference in Static Pressures. (Kontrol' khoda domennykh pechey po raznosti staticheskikh davleniy).

PERIODICAL: Metallurg, 1957, Nr 9, pp.5-7 (USSR).

ABSTRACT: Determinations of the static pressures of the hot blast, part of the way up the stack, and in the throat give a useful indication of the state of the furnace, and such measurements are carried out at several Soviet works. In the present article the recording arrangements adopted at the Kuznetsk metallurgical combine is described and typical traces shown. The arrangement has functioned without interruption for over a year under the difficult conditions of stack pressure measurement: it is provided with a time-relay operated air blast for clearing the tube. The reliability of the records has enabled them to be used for controlling furnace operation. There are 2 figures.

ASSOCIATION: Kuznetsk Metallurgical Combine (Kuznetskiy Metallurgicheskiy Kombinat)

AVAILABLE: Library of Congress.

Card 1/1

SOV/133-58-12-4/19

Chernov N.N., Candidate of Technical Science), Docent, AUTHORS:

Zhigulev P.G., Baranovskiy P.G., Obsharov, V.M., Rayev, Yu. O., and Kargin A.A., (Engineers).

TITLE: An Automatic Control of the Operation of a Blast Furnace

Based on the Drop in Static Pressure (Avtomaticheskoye

regulirovaniye khoda domennoy pechi po perepadu

staticheskogo davleniya)

PERIODICAL: Stal', 1958, Nr 12, pp 1071-1077 (USSR)

ABSTRACT: The Central Automation Laboratory designed experimental equipment for the automatic control of blast furnace

operation based on the pressure drop between the bustle pipe and furnace throat. The signal from the differential manometer acted in turn on the following controls: top pressure, temperature and humidity of blast, blast volume. The equipment was tested on a furnace in the Zaporozhstal' Works in 1954 and on the Kuznetsk Metallurgical Combine in 1956. It was soon found that the system as designed was unworkable. The investigations carried out in the Kuznetsk Combine indicated that changes in top pressure

influence mainly the pressure drop between the throat and Card 1/5 the middle of the stack, and changes in the blast

SOV/133-58-12-4/19

An Automatic Control of the Operation of a Blast Furnace Based on the Drop in Static Pressure

humidity, blast temperature and blast volume affect mainly the pressure drop between the middle of the stack and tuyere level. It was therefore decided to base the automatic control on partial pressure drops between the tuyere level and the middle of the stack and between the middle of the stack and the throat. These partial drops in static pressure were measured with two DPES type differential manometers with a double electronic bridge (two standard electronic bridges operating on to a common recording strip). The reliability of the operation of this equipment depends mainly on the state of the opening in the furnace stack for measuring static pressure. This was successfully solved by arranging the opening through a cooler and cleaning it by a pneumatically operated rod (Figs 1 and 2). The recorded curve of the pressure drop between the above two levels during normal furnace operation is shown in Fig 3; during top hanging of the burden in Fig 1+; during bottom hanging in Fig 5, and when the hearth is filled with iron and

Card 2/5

SOV/133-58-12-4/19 An Automatic Control of the Operation of a Blast Furnace Based on the Drop in Static Pressure

> slag, Fig 6. After preliminary investigation of the influence of the individual operating factors on the partial pressure drops a scheme for the automatic control was evolved, the electrical circuit diagram of which is given in Fig 7. If the top pressure drop exceeds a certain value then the controls will bring about a certain increase in the top pressure. If after some predetermined time the top pressure drop is not returned to its normal value then the blast volume will decrease by increments with a certain time interval between each increment. a complete permitted correction of the blast volume is made, the controller of the bottom pressure drop is put into operation and begins to correct the temperature or humidity and volume of the blast. As a result of the above corrections the pressure drop may be restored to the required value. If the bottom pressure drop does not exceed normal value, then the blast volume begins to increase until it is returned to normal value and is then followed by the restoration of the top pressure. If the

Card 3/5

SOV/133-58-12-4/19

An Automatic Control of the Operation of a Blast Furnace Based on the Drop in Static Pressure

bottom pressure drop exceeds the normal value then the controller of the top pressure drop is not permitted to restore normal operating conditions, but instead the controller of the bottom pressure drop begins to introduce corrections at first of blast temperature or moisture (in stages of 20°C and 2g/m³) and then of the blast volume. Between each correction a time interval of 5 - 7 minutes is maintained. The restoration of the normal operating conditions is done in reverse order. If the pressure drop falls below the predetermined value, then at first either the blast temperature is increased or its humidity decreased and then the blast volume is

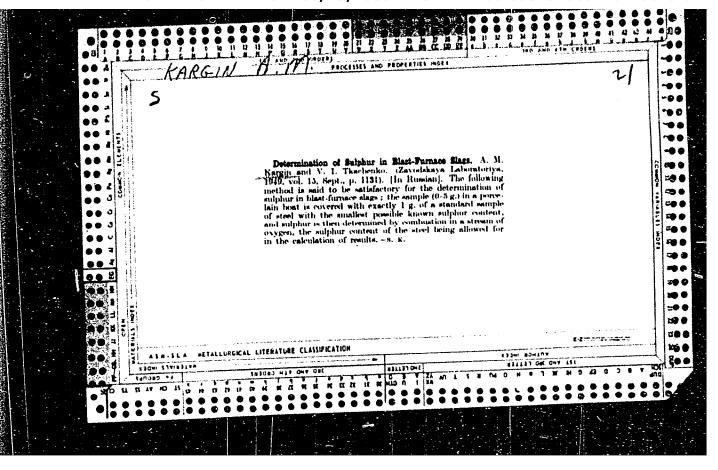
Card 4/5

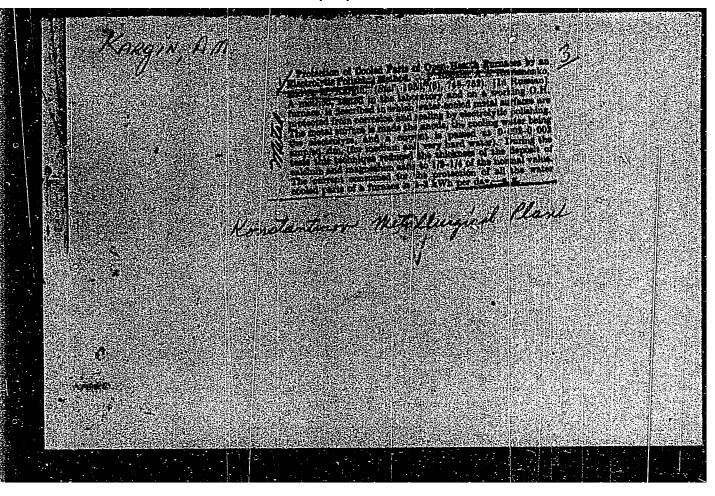
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An Automatic Control of the Operation of a Blast Furnace Based on the Drop in Static Pressure

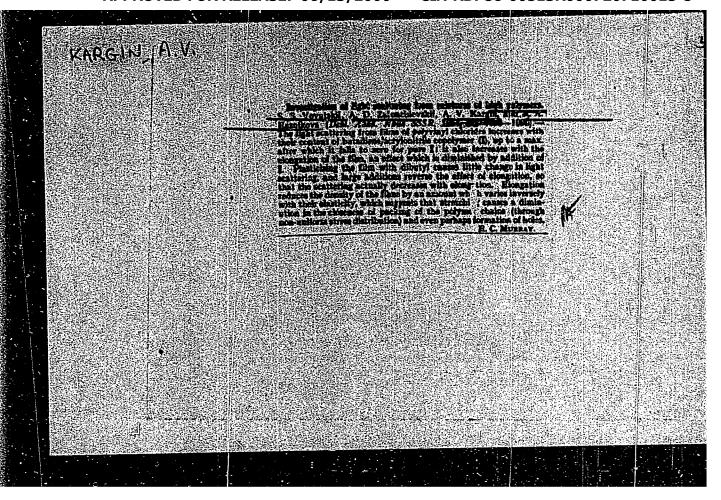
increased. The system was tested during a period of two weeks and in the great majority of cases gave the correct solutions. There are 7 figures.

ASSOCIATION: Sibirskiy metallurgicheskiy institut i Kuznetskiy metallurgicheskiy kombinat (Siberian Metallurgical Institute and Kuznetsk Metallurgical Combine)

Card 5/5







KARGIN, B.A.; KABANOV, V.A.; ZUBOV, V.P.; PAPISOV, I.M.

Initiation of low temperature polymerization in systems obtained by the molecular beam method. Vysokom.soed. 3 no.3:426-434 Mr 161. (MIRA 14:6)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.

(Polymerization) (Molecular beams)

Mimic bus for establishing the position of transformer taps.

Energetik 10 no.3:23-24 Mr *62. (MIRA 15:2)

(Electric transformers)

(Electric power distribution)

SOV/122-59-5-14/32

AUTHORS: Bocherov, A.A., Engineer, and Kargin, D.D., Engineer

TITLE: A New Heavy Forging Hammer (Novyy tyazhelyy molot)

PERIODICAL: Vestnik mashinostroyeniya, 1959, Nr 5, p 45 (USSR)

ABSTRACT: A pneumatic forging hammer, model M418, is described,

made by the Voronezh Works of Press Working Equipment (Voronezhskiy zavod kuznechno-pressovogo

oborudovaniya) imeni M.I.Kalinin. The nominal ram weight is 1000 kg operating at 95 blows per minute. The maximum opening is 770 mm. The installed power is 75 kw. The anvil weight is 12 tons and the remainder weighs 26 tons. The machine requires no outside

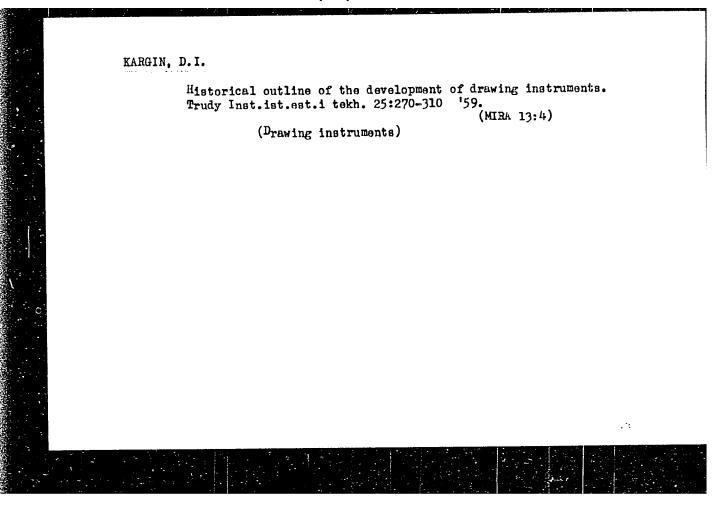
compressed air services. The forging can be held

under pressure. There is 1 photograph.

Card 1/1

KARGIN, D.I., professor, doktor tekhnicheskikh nauk.

Graphic solution of a problem in theoretical mechanics concerning the screw displacement of a rigid body. Sbor. LIIZHT no.144:222-227 152. (Geometry, Descriptive) (Mechanics) (MIRA 8:4)



SERKIN, A.F., inzh.; KARGIN, G.P., inzh.

"Struggle with the coal and rack dust in mines." Reviewed by A.F.Serkin, G.P. Kargin. Bezop. truda v prom. 5 no.8:37-38 Ag '61. (MIRA 14:8)

1. Vsesoyuznyy tsentral'nyy proyektnyy institut po proyektirovaniyu shakhtnogo stroitel'stva kamennougol'noy promyshlennosti.

(Mine dusts)

Furification of mine water used for dust control in mines. Bezop truda v prom. 7 no.4:22-23 Ap '63. (MIRA 16:4) 1. Vsesoyuznyy tsentral'nyy gosudarstvennyy institut po proyektirovaniyu shakht. (Water—Purification) (Mine dusts)

KOLBENKOV, S.P.; MEDYANTSEV, A.N.; IOFIS, M.A.; KOROTKOV, M.V.;

MULLER, R.A.; YUSHIN, A.I.; MELAMUT, L.Sh.; KAFGIN, G.P.;

GERTNER, P.F.; ZARETSKIY, K.S.; CHECHKOV, L.V., red.1zdva; MAKSIMOVA, V.V., tekhn. red.

[Designing, constructing, and protecting buildings and structures on foundations undercut by mining] Proektirovanie, stroitel'stvo i okhrana zdanii i sooruzhenii na podrabatyvaemykh territoriiakh. Moskva, Gosgortekhizdat, 1963. 451 p. (MIRA 16:8)

(Earth movements and building)

ACC NRI AP7001202

(A)

SOURCE CODE: UR/0407/65/000/05-/0105/0107

AUTHOR: Kargin, G. V. (Moscow)

ORG: none

TITLE: Surface finish of electrochemically machined heat-resistant steels and alloys

SOURCE: Elektronnaya obrabotka materialov, no. 5-6, 1965, 105-107

TOPIC TAGS: heat resistant steel, heat resistant alloy, stainless steel, electrochemical machining, steel electrochemical machining, steel surface finish/EI481 steel, E1437 B steel, E1617 steel, E1929 B steel, OKhN3M steel, E1766 steel

ABSTRACT: The dependence of the quality of surface finish on the finishing-current density in the electrochemical machining of heat-treated heat-resistant steels and alloys has been investigated. Specimens of 4Kh12N8G8MFB(EI481), 33KhN3M, KhN 77TYuR @1437B), KhN70VMTYu (E1617), EP57 (E1929B), and E1766 steels and alloys were machined in a 15% NaCl aqueous solution pumped into the interelectrode gap at a pressure of 4 atm at a current density of 5-23 amp/cm² and avoltage of 9-15 v. With prolonged machining time and simultaneously decreased current density, the surface finish of all investigated specimens improved, reached an optimum quality, and then deteriorated. This appears to result from the different rates of dissolution of the grains and the grain boundaries. The grain body dissolution depended on the machined metal and decreased with increasing current density. It appears

CIA-RDP86-00513R000720710015-8" **APPROVED FOR RELEASE: 06/13/2000**

ACC NR: AP 7001202

that at fairly high current densities, the dissolution of grains and the grain boundaries proceeded at the same rate, and, in such cases, no etching marks were observed on the machined surface. No etching marks were observed at current densities higherthan 50—60 amp/cm² for KhN77TMR (EI437B), KhN70VMTYu (EI617), EP57 (EI929B) and EI766 alloys, at current densities of 18—20 amp/cm² for 4Khl2N8G8MFB (EI481) stainless steel, and less than 7 amp/cm² for 33KhN3MA (OKhN3M) low-alloy steel. Orig. art. has: 7 figures.

SUB CODE: 11, 13/ SUBM DATE: none/ ORIG REF: 002/ ATD PRESS: 5110

Card 2/2

ACC NR: AP7001199 (A,N) SOURCE CODE: UR/0407/65/000/05-/0088/0092

AUTHOR: Kargin, G. V. (Moscow)

ORG: none

TITLE: Experimental determination of edge rounding in precise electrochemical

metal machining

SOURCE: Elektronnaya obrabotka materialov, no. 5-6, 1965, 88-92

TOPIC TAGS: electrochemical machining, metal machining

ABSTRACT: A small (0.1-0.2 mm) rounding off the workpiece edges was noticed in the course of electrochemical deburring operations. In this connection, a special investigation of rounding off rectangular edges of a heat-resistant steel, a heat-resistant alloy, and a titanium alloy was conducted. Specimens mounted in a special holder could be positioned with respect to the cathode; the electrolyte

Card 1/2

ACC NR: AP7001199

(15% NaCl) was injected laterally into the specimen-cathode gap; source voltage, 9-15 v; pressure, 4-5 kg/cm². The effect of machining time (up to 120 sec) on rounding off geometry (radius of curvature up to 1 mm) was investigated. The edge on the jet-incoming side was invariably more eroded than the edge on the jetoutgoing side; a rounding up to 3 mm was achieved. For greater rounding, maximum initial gap and maximum initial voltage are recommended. Orig. art. has: 11 figures and 2 formulas.

SUB CODE: 13.09 / SUBM DATE: none / ORIG REF: 002

Card 2/2

CIA-RDP86-00513R000720710015-8 "APPROVED FOR RELEASE: 06/13/2000 SOURCE CODE: UR/0123/66/000/0014/0040/00142 JD/WB IJP(c) EWT(m)/EWP(t)/ETI 38325-66 51 ACC NR: AP6012743 TITLE: The surface quality of heat-strengthened steels and alloys after electro-chemical measured processing AUTHOR: Kergin, G. V. (Engineer) ORG: none SOURCE: Vestnik machinostroyeniya, no. 4, 1966, 40-42 TOPIC TAGS: electrochemistry, metal surface, surface sealing, heat resistant steel, ABSTRACT: The surface quality of heat-strengthened steels and alloys is described ABSTRAIT: The surface quality of heat-strengthened steels and alloys is described with respect to varying electrochemical processing. The following steels and loys were studied: Likhl2N668MFB (EIL81), 33khN3MA (OkhN3M), khN77TYUR(EIL37B), and EI766. (It was found that the increase in khN70VMTYU (EI617)) EP57 (E1929B), and EI766. (It was found that the increase in current density during processing of all the materials investigated leads to improvement of the surface. The noleanlinease of the surface during electrochemical improvement of the surface. heat resistant material improvement of the surface. The "cleanliness" of the surface during electrochemical improvement of the surface. The "cleanliness" (norm 2780_50) The doubt of correction of the surface of improvement of the surface. The "cleanliness" of the surface during electrochemical measured processing can reach the 9th level (GOST 2789-59). The depth of corrosion depends upon the grade of treated alloy and decreases with increasing current depends upon the grade of treated alloy and decreases with increasing current density. For each allow grade thems density. For each alloy grade there exists a certain relatively high current density of which corrected density of which corrected density. density. For each alloy grade there exists a certain relatively high current density at which corresion disappears. For alloys KhN77TYuR (EIh37B), KhN70VETYu (EI617), EP57 (EI929B), and EI766 the density is higher than 50--60 a/cm²; for alloy UDC: 621.9.047.015:669.14.018.44 A Secretaria

: USSR Q Country : Farm Animals. Category Cattle. Abs. Jour : Ref Zhur-Biol., No 21, 1958, 96892 : Gmyzin, V.; Kargin, I. Author : The Fattening of Cattle in Northern Kazakhstar Institut. Titlo Orig Pub. : S. kh. Kazakhstana, 1957, No 10, 18-20 : No abstract. Abstract 1/1 card:

GRAMM, M.N.; KARGIN, I.Ye.

Strata containing Cytherissa cascusa Mandelstam in litt. in the Karakul' region. Dokl. AN Uz.SSR no.7:15-17 '58. (MIRA 11:10)

1. Institut geologii AN UESSR i Uzbekskaya gidrogeologicheskaya ekspeditsiya. Predstavleno chelnom-korrespondentom UzSSR N.L. Korzhenevskim.

(Karakul' region--Ostracoda, Fossil)

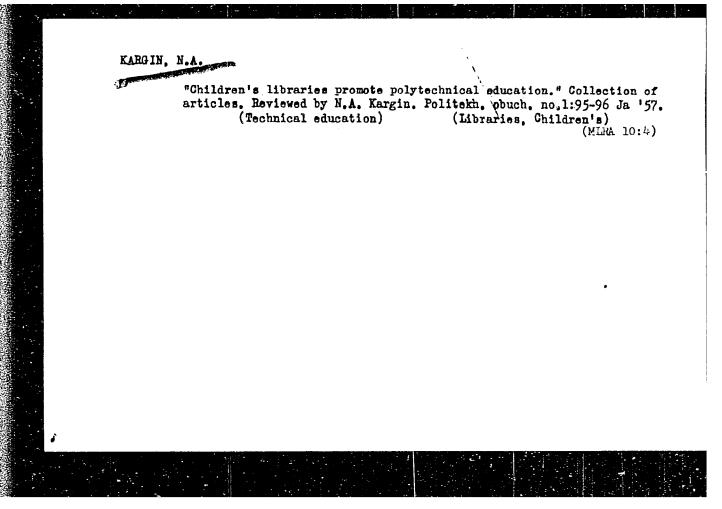
Correspondence seminar of trade-union group organizers. Sov.

Correspondence seminar of trade-union group organizers. Sov.

profsoiuzy 18 no.2:18-20 Ja '62. (MIRA 15:4)

1. Professional'nyy organizator grup uchastka pryadil'noy
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fabriki kommunisticheskogo truda kombinata "Trekhagornaya
manufaktura", Moskva (for Samoylova). 2. Professional'ny,
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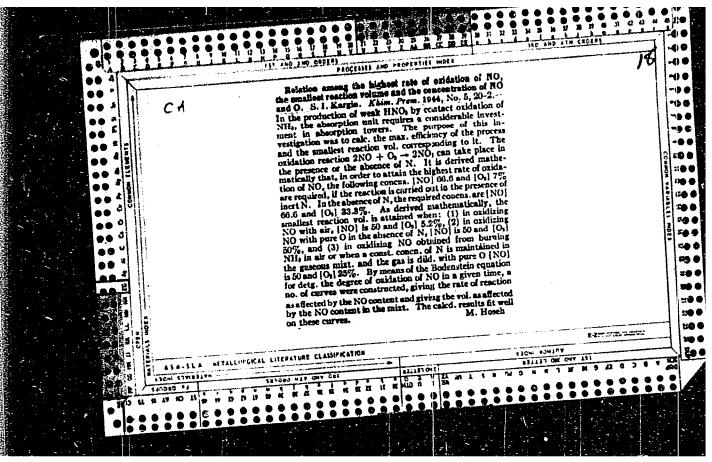


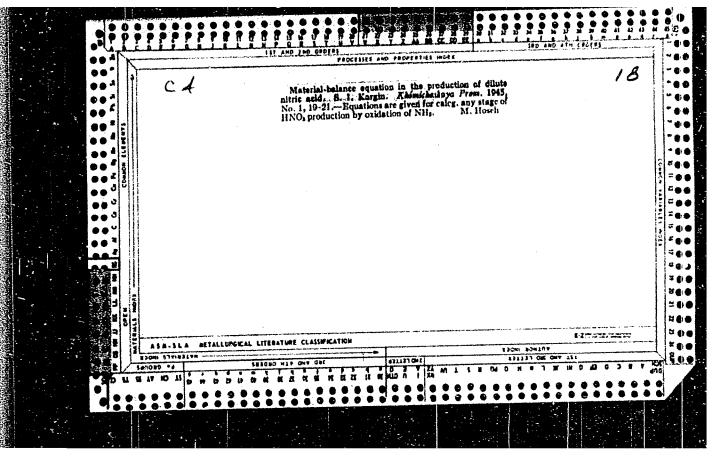
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CIA-RDP86-00513R000720710015-8

L 39971-66 EWT(d)/EWT(m)/EWP(h)/T-2/EWP(l) ACC NR. AP6016735 (A) SOURCE CODE: UR/0084/66/000/001/0018/0019 AUTHOR: Kuznetsov, I. (Deputy chief engineer); Kargin, O. (Chief engineer) 5 3 ORG: [Kuznetsov] Moscow Administration of Special Aviation Applications and Local ORG: [Kuznetsov] Moscow Administration of Special Aviation Applications and Local Airlines (Moskovskoye upravleniye aviatsii spetsial nogo primeneniya i mestnykh Airlines (Moskovskoye upravleniye aviatsii spetsial nogo primeneniya i mestnykh Airlines (Moskovskoye upravleniye aviatsii spetsial nogo primeneniya i mestnykh Airlines (Moskovskoye upravleniye aviatsii spetsial nogo primeneniya i mestnykh Airlines (Moskovskoye upravleniye masterskiye)
ekspluatatsionno-remontnyye masterskiye) TITLE: An-24 aircraft conquers air routes SOURCE: Grazhdanskaya aviatsiya, no. 1, 1966, 18-19 TOPIC TACS: A civil aviation, transport aircraft, turboprop aircraft, turboprop engine / An-24 turboprop aircraft, AI turboprop engine, AV-72 propeller AIRCRAFT PROPELLER An-24 turboprop aircraft, AI turboprop engine, AV-72 propeller AIRCRAFT PROPELLER ABSTRACT: A two-year experience with repair and maintenance of An-24 turboprop aircraft is briefly reviewed. The aircraft is widely used on local connection lines of Voronezh, is briefly reviewed. The aircraft is widely used on local connection lines of Voronezh, is briefly reviewed. The aircraft is widely used on local connection lines of Voronezh, is briefly reviewed. The aircraft and Tambov. The organization of special training Kursk, Bryansk, Tula, Lipetsk, Ivanov and Tambov. The organization of special training courses for studying the design, operation and repair of An-24 aircraft, AI-turboprop courses for studying the design, operation and repair of An-24 aircraft, AI-turboprop courses for studying the design, operation and repair of An-24 aircraft, AI-turboprop courses for studying the design, operation and repair of An-24 aircraft, AI-turboprop courses for studying the design, operation and repair of An-24 aircraft, AI-turboprop courses for studying the design, operation and repair of An-24 aircraft, AI-turboprop courses for studying the design, operation and repair of An-24 aircraft, AI-turboprop courses for studying the design, operation and repair of An-24 aircraft and AV-72 propeller is mentioned. A thorough overhaul after 2000 hours of flight engine and AV-72 propeller is mentioned. A thorough overhaul after 2000 hours of flight engine and AV-72 propeller is mentioned and their work is praised. Orig. art. has: 2 photos. SUB CODE: Ol/ SUBM DATE: None
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KARGIM, S. I.

USSR/Chemistry - Mitric Acid Chemistry - Absorption

Jan 1947

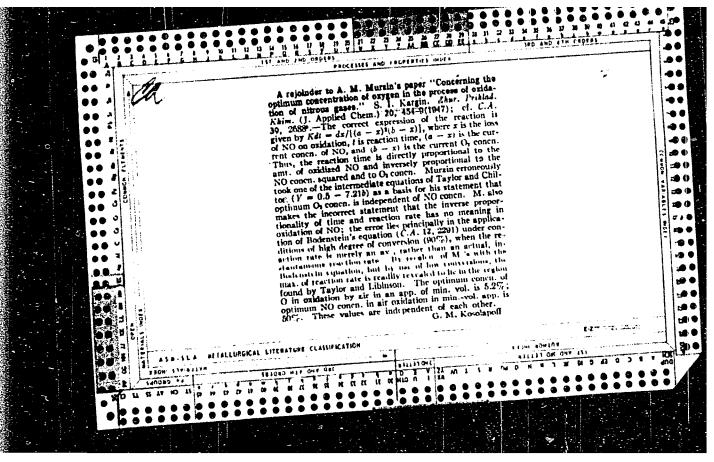
"Full Oxidization of the Absorption System in the Froduction of Mitric Acids' b D. A. Chernobayev," S. I. Kargin, Senior Engr, GIAL 2 pp

"Khimicheskaya Tromyshlennost" No 1,p.31-32

State Ind. Nitrogen Industry.

A brief comment on an article in "Zhurnal Khimicheskoy Iromyshlennosti" No 23, 1937. Kargin contends that Chernobayev took an erroneous view of the whole subject, and points out the various differences of opinion between the statements made by Cherrobayev and existing facts.

1 A 29T15



KARGIN, S. I.

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 667 - X

PHASE X

Call No.: AF 390779

BOOK

Author: ATROSHCHENKO, V. I. and KARGIN, S. I.

Full Title: TECHNOLOGY OF NITRIC ACID

Transliterated Title: Tekhnologiya azotnoy kisloty

PUBLISHING DATA

Publishing House: State Scientific and Technical Publishing House of Chemical

Literature

Date: 1949

No. pp.: 376

No. of copies: 5,000

PURPOSE AND EVALUATION: The book is intended to serve as a textbook for students of technology. It may also serve as a manual for technical personnel employed in the chemical industry. Since Allin Cottrell's book Manufacture of Nitric Acid and Nitrates was published in London in 1932 (2nd edition), no monograph on the manufacture of nitric acid has been published in English. Thus this book should be of great value to chemists actively engaged in the production of nitric acid. The book as a whole is clearly written. The text is well illustrated with diagrams, tables, and formulas.

TEXT DATA

Coverage: The calculations concerned with the manufacture of concentrated nitric

KARGIN, S.Z.

"A Method for the Production of Liquid Nitrogen Oxides From Nitrous Gases," by S. I. Kargin (Authorship Certificate No 105415 of 25 Apr 1957, Class 12 i, 26, Application No 311941/-9342 filed on 27 November 1942 at the People's Commissariat of Chemical Industry), Byulleten' Izobreteniy, No 2, Apr 57,

A method of producing liquid nitrogen oxides from nitrous gases is described whereby these gases are oxidized by the oxygen of the air under pressure and then absorbed by a cooled solvent in absorption towers. A pressure and then absorbed by a cooled solvent in that nitrogen dioxide is distinguishing characteristic of the method is that nitrogen dioxide is distinguishing characteristic of the method is that nitrogen dioxide is absorbed in towers by concentrated nitric acid, which must have a concentration of at least 80%, at a low temperature and a pressure no lower than tration of at least 80%, at a low temperature and a pressure no liver than that it is not pressure. The nitrogen dioxide is then separated from the nitric acid 6 atmospheres. The nitrogen dioxide is then separated from the nitric acid by heating and condensed by cooling at atmospheric pressure. (U)

Sum on 1827 .

AKARGIN, S.I.

AUTHORS:

Mel'nikov, Ye. Ya., Engineer, Kargin, S. I., Engineer

67-1-1/20

TITLE:

Application of Oxygen in Nitrogen Industry

(Primeneniye kisloreda v azotnoy premyshlennosti)

PERIODICAL:

Kislorod, 1958, V. II, Nr 1, pp. 1-15 (USSR)

ABSTRACT:

Oxygen which was produced in Soviet Nitrogen Industry only as waste product in nitrogen industry until 1942 and which in general was used only little has been utilized more intensively only since 1942. Since 1944 oxygen was used in the first gas producer station constructed in the USSR with which the current coking was made for ammonia products. Since this time the application of oxygen steadily increased in Soviet industry. In 1945 it had increased by the 3,5 fold and in 1956 by the 5,7 fold as compared to 1945. Especially the recent discoveries of rich petroleum and natural gas sources have contributed towards this increase. In this connection the Soviet ammonia production from natural gas was started with the use of oxygen. The Soviet planning aims at the use of oxygen in the case of 45 % of the total production

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Application of Oxygen in Nitrogen Industry

67-1-1/20

of ammonia by 1960 (instead of the hitherto 15 %). Moreover, oxygen is used now also to an increasing extent for the production of weak nitric acid, methyl- and isobutyl alcohol, as well as of acetylene (by means of oxygen pyrolysis). In the chapter: coking of brown coal in the gas generator "ГИАП" a plant is described which is now widely used in the USSR and also in the other socialist countries. The main principle of this plant consists in the moist oxygen blast with an intensity of 1500-4500 nm³ per m³ of the coke furnace. In the chapter: continuous coking, a new plant is described which is used for steam operated air oxygen blasts in ammonia production of for steam operated oxygen blasts in the production of synthetic alcohols. In the chapter: peat coking, it is said that in the USSR (disposing of move than 60 % of the world's stock of peat) this fuel is used as raw material for nitrogen industry especially in those areas where other fuel lacks. The above described "[MAN " plant is used for the coking of peat which had been dried before to 10-15 % of moisture content. In the chapter: catalytic steam operated oxygen - conversion of hydrocarbon gases, a process is described which consists of the catalytic

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Application of Oxygen in Mitrogen Industry

67-1-1/20

oxidation of methane or its homelegs by mears of oxygen until the exidation of carbon or hydrogen. This process is now introduced in the USSR to an increasing extent and many new industrial plants based on this process are constructed. In the chapter: high temperature conversion of hydrocarbon gases, the process of a non catalytic incomplete oxidation of methane or its homologs by means of oxygen at high temperatures is decribed. The described plan operates at a temperature of 1450°. A similar process, however, under the use of pressure was introduced for the first time in Soviet industry. In the chapter: incomplete exidation of mazut or petroleum by non catalytical means, a process is described by means of which gases are produced which are used for the synthesis of ammonia, alcohols and for the production of hydrogen. In the chapter: exidation of higher hydrocarbons in petroleum cases at low temperatures a method is described which is used for the practical exploitation of these gases which in this connection are used as raw material for the production of synthetic ammonia, spirits and aldehydes. The scheme of production is given. In the chapter: production of acetylene from natural cas, the production

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Application of Oxygen in Nitrogen Industry

67-1-1/20

by means of thermo exidation pyrolysis of natural methane by means of oxygen is described. This production method will play an important role in Soviet chemical industry in the near future. The plant used for this purpose is described. In the chapter: the application of oxygen in nitrogen production, 2 processes are described:

- 1) oxidation of NH₃ to NO and water, and
- 2) oxidation of NO to NO₂ the reation of which water, produces nitric acid. The plant used for this method is equally

There are 8 figures, 13 tables, and 19 references, 16 of which are Slavic

AVAILABLE:

Library of Congress

1. Industry-USSR 2. Oxygen-Production

Card 4/4

5(1) AUTHOR: 06220 Kargin, S. I. SOV/64-59-6-12/28 TITLE: Some Equations for Calculating the Production of Concentrated PERIODICAL: Khimicheskaya promyshlennost', 1959, Nr 6, ABSTRACT: In the production of concentrated nitric acid in a plant the amount of one of the reaction components has often to be established in one of the stages of the process. Since the establishment of a material balance is rather complicated in such a case, appropriate equations are derived here which allow a simple calculation of the changes of one quantity in dependence on another. The technological process of nitric acid production may be divided into 5 main stages: 1) Oxidation of NO by atmospheric oxygen, 2) separation of the superfluous H₂O from nitrose gases, 3) final oxidation of NO with concentrated HNO3, 4) processing of nitrogen oxides into the Card 1/2 acid in the autoclave, and 5) decoloration of concentrated nitric

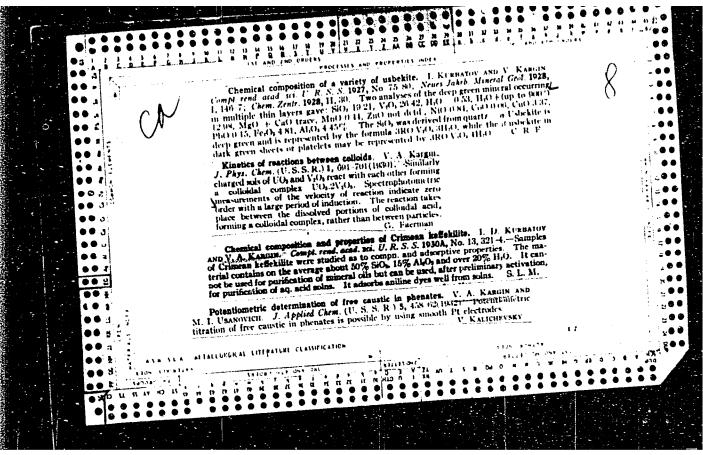
Some Equations for Calculating the Production SOV/64-59-6-12/28 of Concentrated Witric Acid by Direct Synthesis

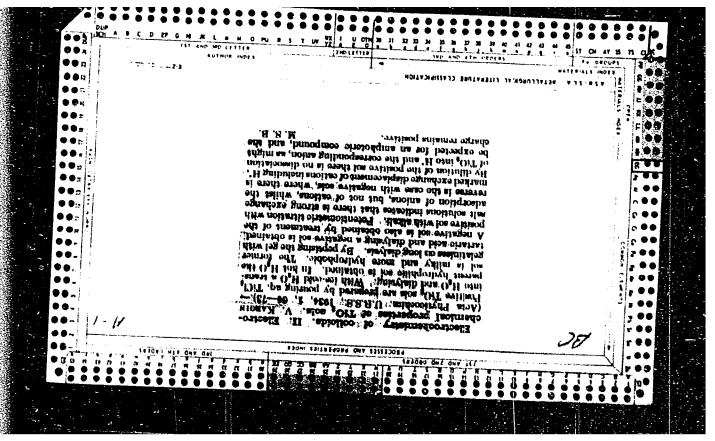
acid. For these 5 stages the said equations are derived in 5 respective parts, and (with the final equations) a total of 62 equations is given.

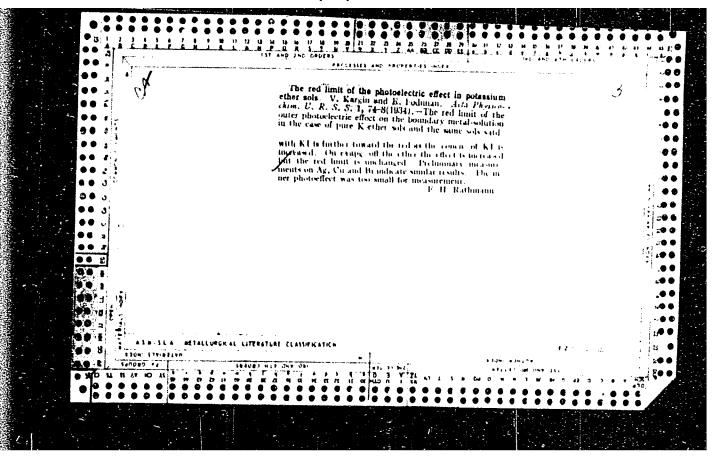
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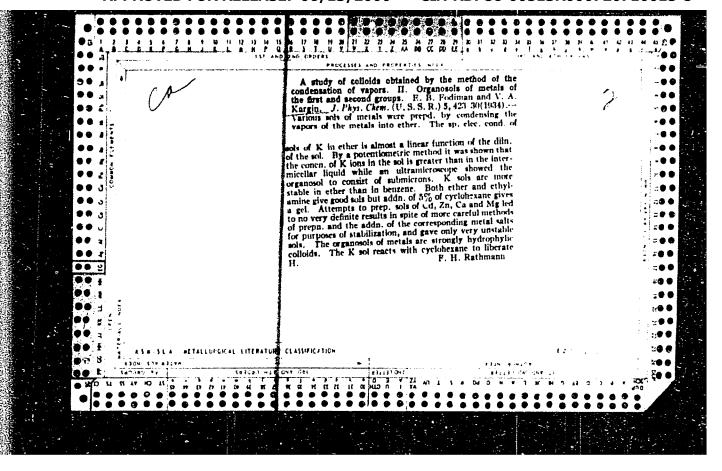
ATROSHCHENKO, Vasiliy Ivanovich; KARGIN, Stepan Ivanovich; CHULKOVA, I.S., red. ZAZULISKAYA, V.F., tekhn. red.

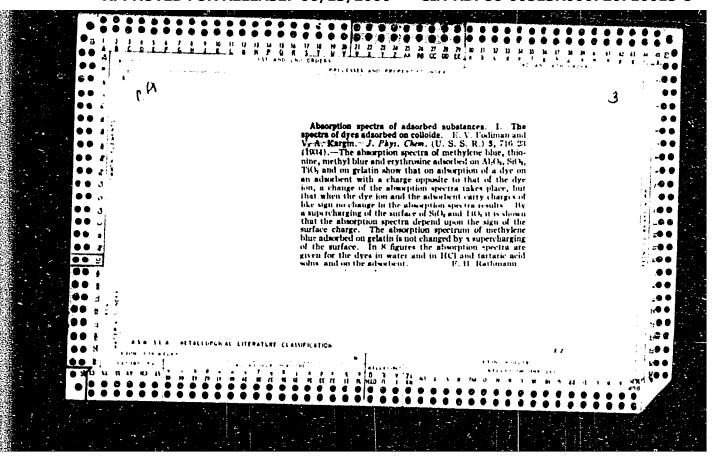
[Technology of nitric acid] Tekhnologiia azotnoi kisloty. Moskva, Gos. nauchno-tekhn. izd-vo khim. lit-ry, 1962. 523 p. (MIRA 15:3)

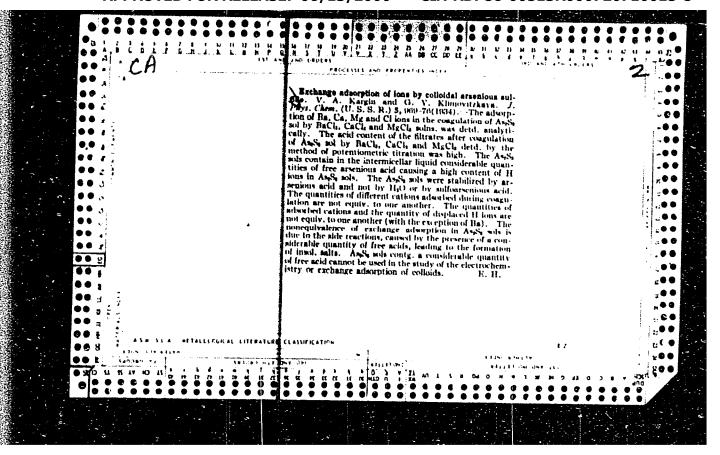


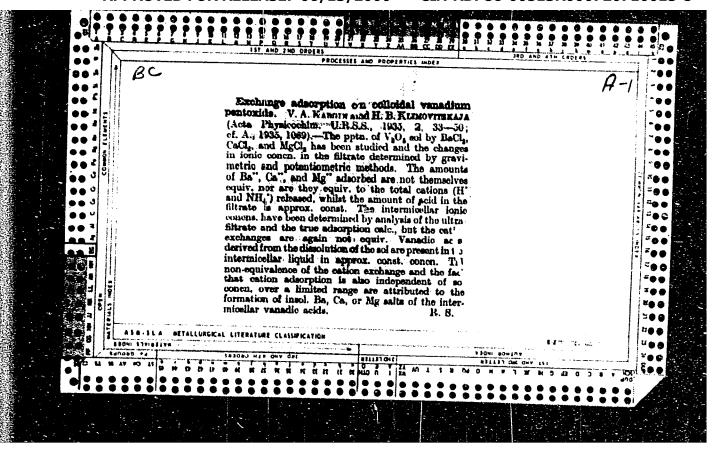


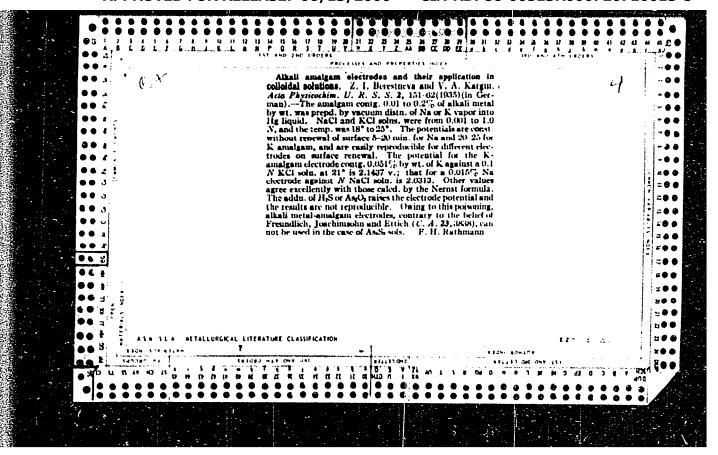


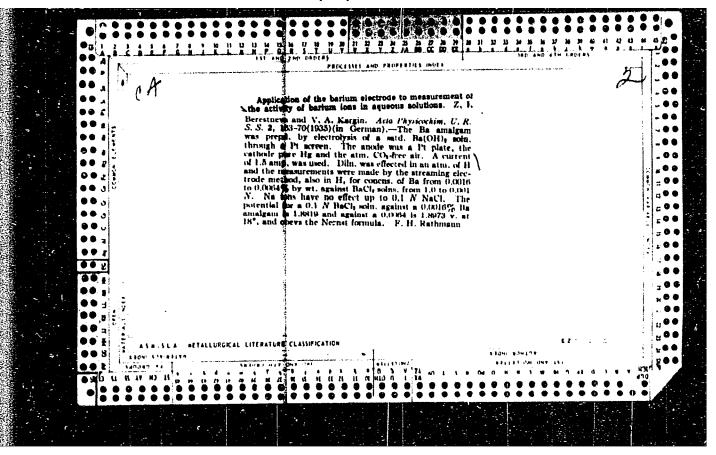


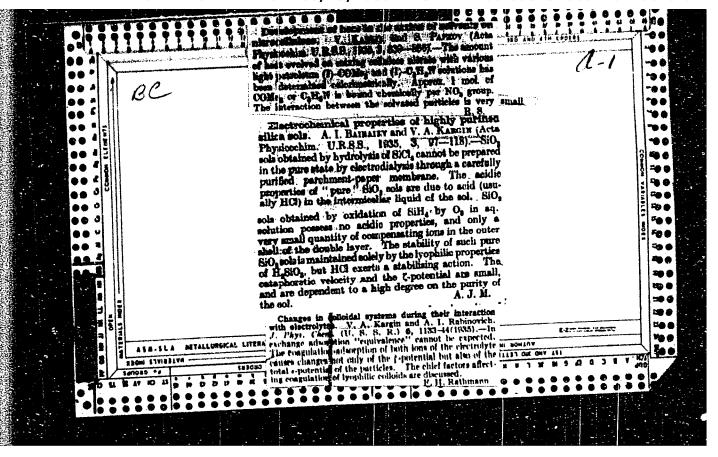


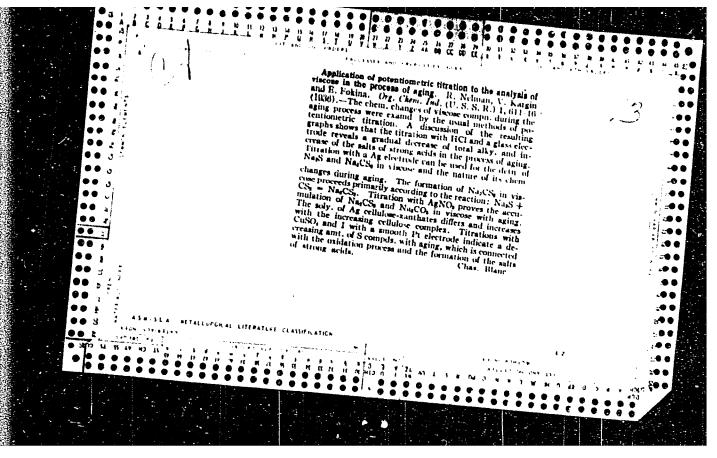


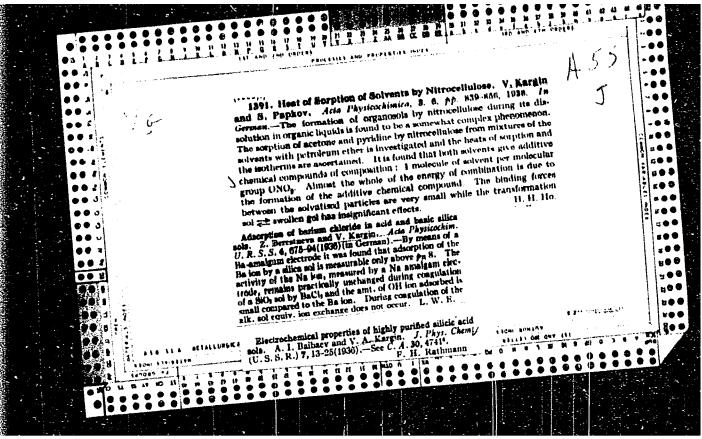


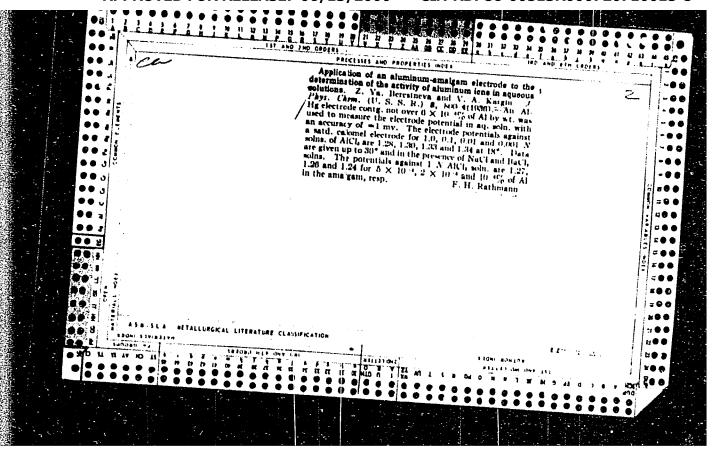


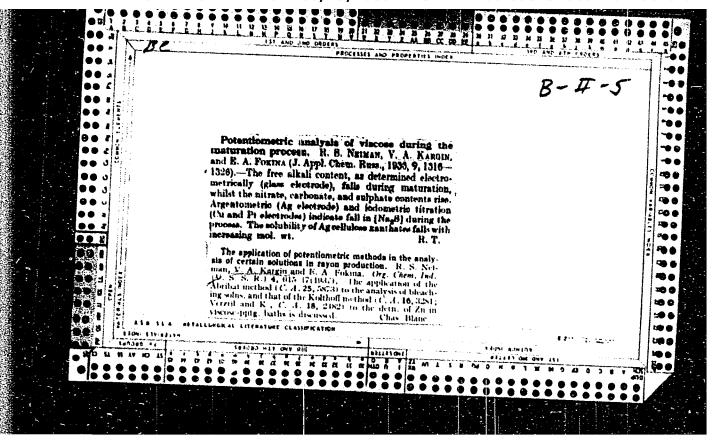


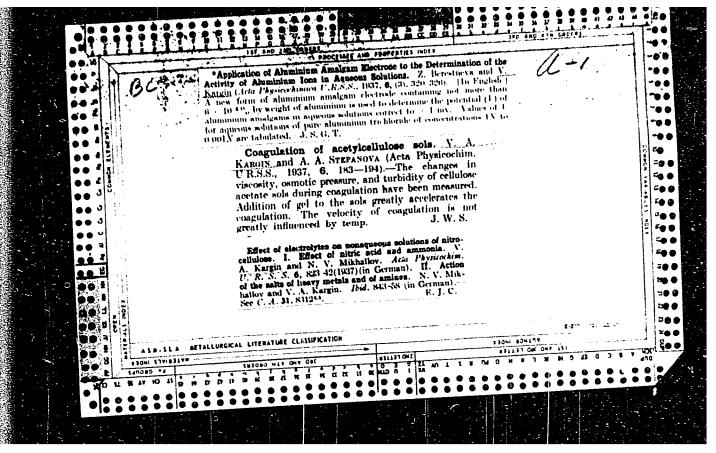


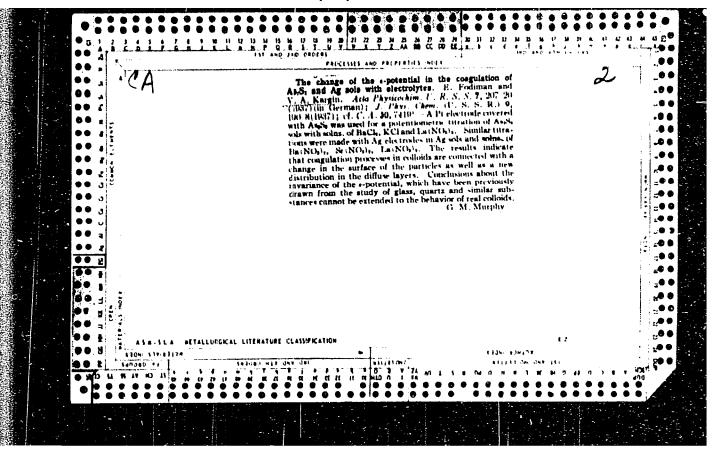


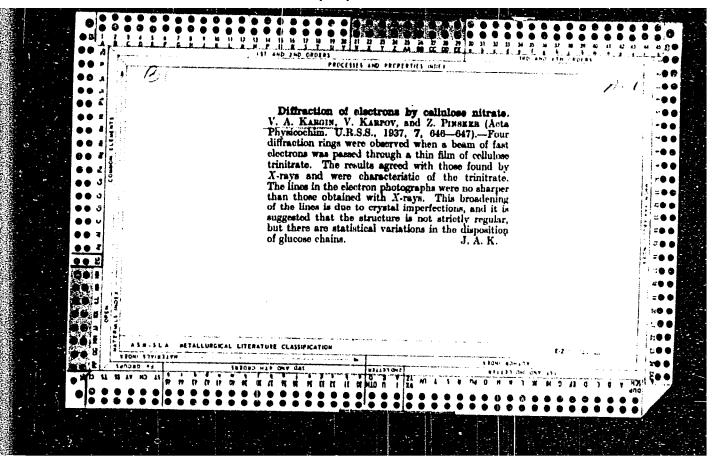


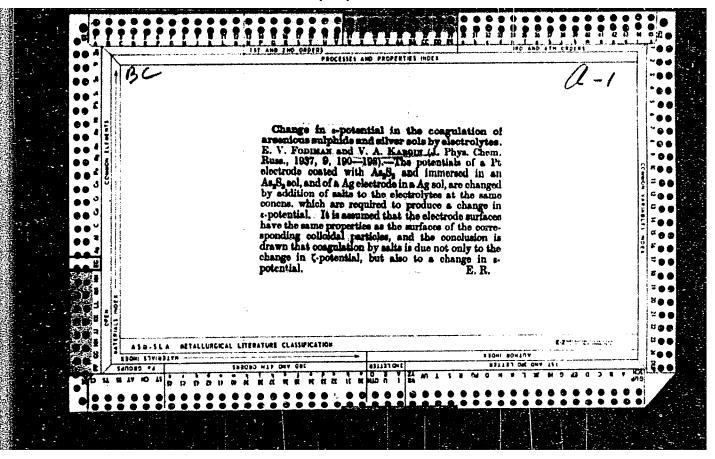


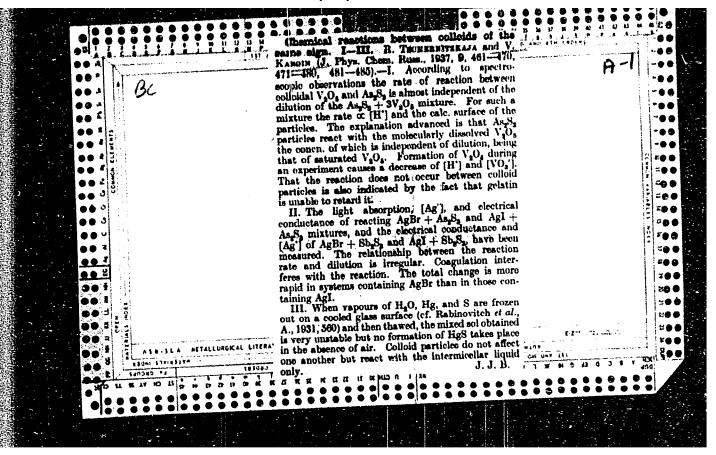


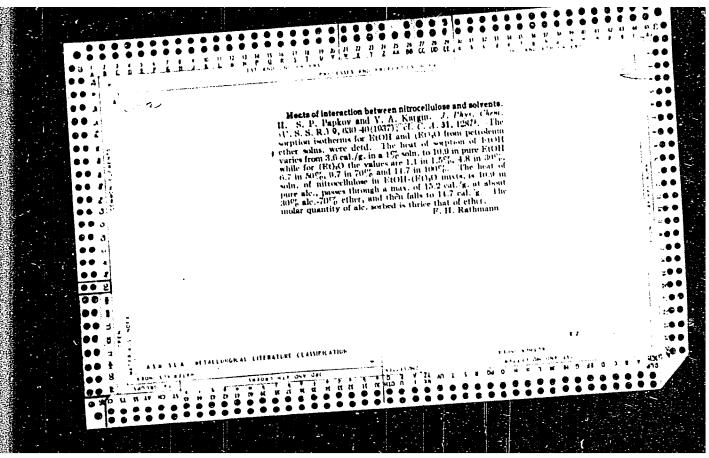


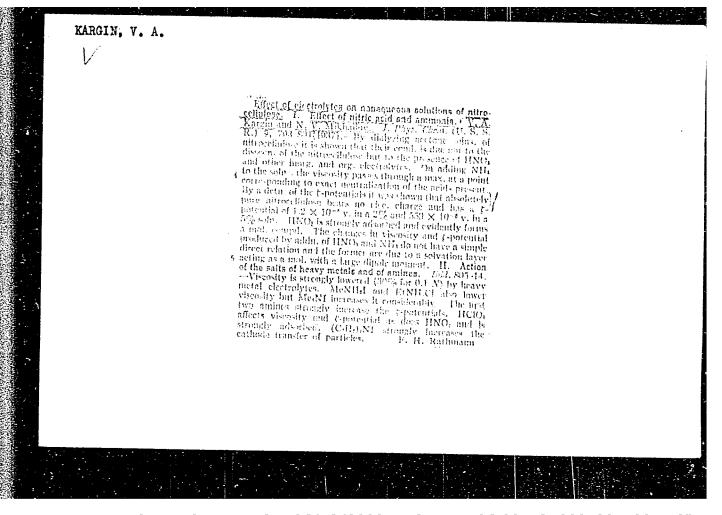


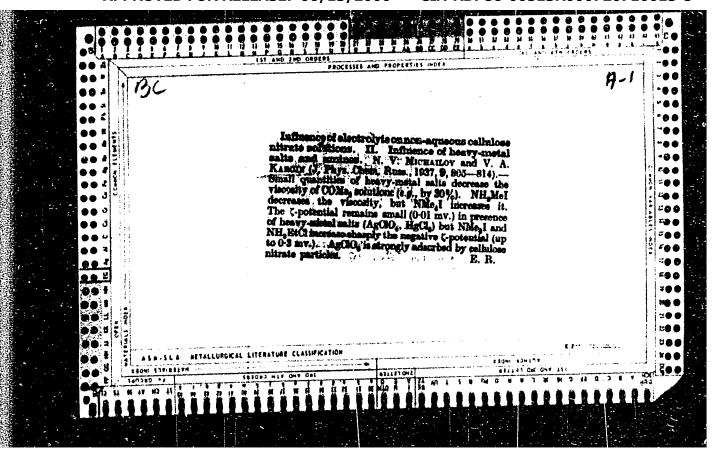


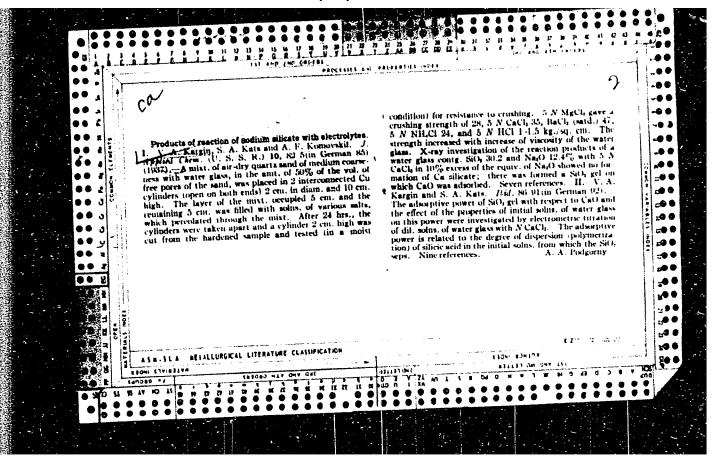


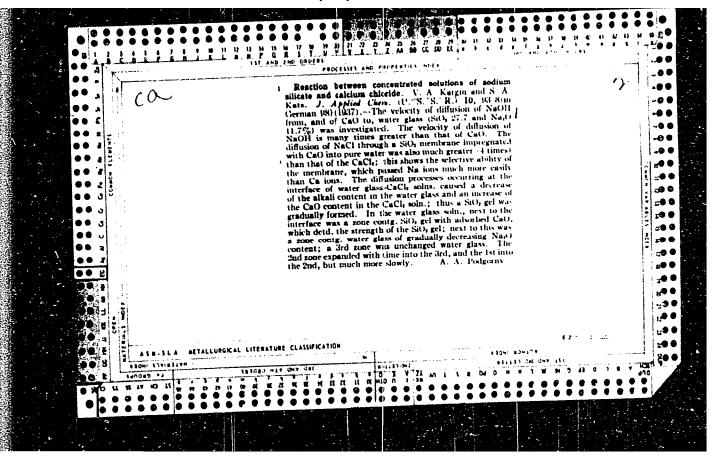












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